Applicant: Masayuki

iya et al.

Serial No.:

: Herewith Filed

: 5 Page

orney's Docket No.: 06501-076001

REMARKS

Claims 1-40 are pending, claims 3-9, 14, 16, 17, 24, 25, 27, 28, and 36-40 having been amended to delete multiple dependency. No new matter has been added.

Attached is a marked-up version of the changes being made by the current amendment. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Janis K. Fraser, Ph.D., J.D.

Reg. No. 34,819

Fish & Richardson P.C. 225 Franklin Street

Boston, MA 02110-2804

Telephone: (617) 542-5070 Facsimile: (617) 542-8906

20209457.doc

orney's Docket No.: 06501-076001

Serial No.:

Filed

: Herewith

Page

: 6

Version with markings to show changes made

In the specification:

Paragraph beginning at page 11, line 27 has been amended as follows:

An E. coli strain containing plasmid TABI-f-4, which comprises a DNA encoding a human TAB1 peptide having the amino acid sequence from Met at amino acid 1 to Pro at amino acid 504 in the TAB1 amino acid sequence shown in SEQ ID NO: 4, was named Escherichia coli DH5[a]α (TABI-f-4) and has been deposited internationally under the Budapest Treaty as an accession No. FERM BP-5599 in The National Institute of Bioscience and Human-Technology, The Agency of Industrial Science and Technology (1-1-3 Higashi, Tsukuba, Ibaraki, Japan) on July 19th, 1996.

In the claims:

Claims 3-9, 14, 16, 17, 24, 25, 27, 28, and 36-40 have been amended as follows:

- 3. (Amended) The method of claim 1[or 2], wherein the TAK1 or the TAB1 is linked to a support.
- 4. (Amended) The method of [any one of claims 1 to 3] claim 1, wherein a label is attached to the TAK1 or the TAB1 and wherein the binding is detected by detecting or measuring the label.
- 5. (Amended) The method of [any one of claims 1 to 3] claim 1, wherein the binding is detected by detecting or measuring the TAB1 bound to the TAK1 with a primary antibody against TAB1 or a primary antibody against the peptide fused with the TAB1.
- 6. (Amended) The method of [any one of claims 1 to 3] claim 1, wherein the binding is detected by detecting or measuring the TAK1 bound to the TAB1 with a primary antibody against TAK1 or a primary antibody against the peptide fused with the TAK1.

orney's Docket No.: 06501-076001 iya et al. Applicant: Masayuki

Serial No.:

: Herewith

Filed Page

: 7

7. (Amended) The method of [any one of claims 1 to 3] claim 1, wherein the binding is detected by detecting or measuring the TAB1 bound to the TAK1 with a primary antibody against the TAB1 or a primary antibody against the peptide fused with TAB1, and a secondary antibody against the primary antibody.

- 8. (Amended) The method of [any one of claims 1 to 3] claim 1, wherein the binding is detected by detecting or measuring the TAK1 bound to the TAB1 with a primary antibody against TAK1 or a primary antibody against the peptide fused with the TAK1, and a secondary antibody against the primary antibody.
- 9. (Amended) The method of [any one of claims 5 to 8] claim 5, wherein the primary antibody or the secondary antibody is labeled with radioisotope, enzyme, or fluorescent substance.
- 14. (Amended) The method of claim 12[or 13], wherein a substrate for the TAK1 is added and wherein the phosphorylation of the substrate by the TAK1 is detected.
- 16. (Amended) The method of [any one of claims 12 to 15] claim 12, wherein the TAK1 is fused with a peptide.
- 17. (Amended) The method of [any one of claims 12 to 16] claim 12, wherein the TAK1 is linked to a support.
- 24. (Amended) The method of claim 20[or 23], wherein the reporter gene is luciferase, chloramphenicol acetyltransferase, green fluorescent protein, or β -galactosidase.
- 25. (Amended) The method of [any one of claims 18 to 24] claim 18, wherein an inflammatory stimulus is given to cells and wherein the biological activity transduced through TAK1 or through TAK1 and TAB1 is detected and/or measured.

Applicant: Masayuki hiya et al.

Serial No.:

Filed : Herewith

Page

: 8

27. (Amended) The method of [any one of claims 1 to 26] claim 1, wherein the inflammatory cytokine is IL-1, TNF, IL-10, or IL-6.

torney's Docket No.: 06501-076001

- 28. (Amended) A compound for inhibiting signal transduction through inflammatory cytokines, the compound that can be isolated by the method of [any one of claims 1 to 27] claim 1.
- 36. (Amended) The pharmaceutical composition of [any one of claims 33 to 35] claim 33, wherein the pharmaceutical composition is an anti-inflammatory agent.
- 37. (Amended) The pharmaceutical composition of [any one of claims 33 to 36] claim 33, wherein the compound is a compound inhibiting binding between TAK1 and TAB1.
- 38. (Amended) The pharmaceutical composition of [any one of claims 33 to 36] claim 33, wherein the compound is a compound inhibiting phosphorylation by TAK1.
- 39. (Amended) The pharmaceutical composition of [any one of claims 33 to 38] claim 33, wherein the compound is a compound that can be isolated by the [method of any one of claims 1 to 27] steps of:
 - (a) contacting a test sample with TAK1 and TAB1;
 - (b) detecting binding between the TAK1 and the TAB1: and
 - (c) selecting a compound inhibiting the binding.
- 40. (Amended) The pharmaceutical composition of Jany one of claims 33 to 391 claim 33, wherein the inflammatory cytokine is IL-1, TNF, IL-10, or IL-6.